



**2006-2014 3 inch ultimate lift kit**  
*Professional installation is recommended*

### **IMPORTANT!**

Lifting and modifying the suspension on your vehicle may result in drive line vibrations, damaged bushings, erratic handling characteristics, and shortened suspension component life. HRG Offroad recommends the following:

- Checking and/or replacing worn drive axles with new parts, not remanufactured.
- Checking and/or replacing all worn factory rubber bushings with urethane bushings, such as Prothane.
- Checking and/or replacing worn shock absorbers and bump stops.
- Performing a 4 wheel alignment after working on suspension components.

**Lift kits may not be legal for use on public highways in your area. Please check local laws before installing!!**

### **WARNING!**

***Lifted vehicles are more prone to rolling over.***

Some HRG Offroad products are designed to improve off-road capabilities. Modifying the suspension of your vehicle may result in handling characteristics that are different from a factory equipped vehicle. Extreme care must be used to prevent a rollover or loss of control. Always operate your modified vehicle at a reduced speed to ensure your ability to maintain control under all driving conditions. Driving your vehicle in an unsafe manner may result in serious injury or death. HRG Offroad lift kits are designed and tested to work together. HRG Offroad does not recommend combining this lift kit with any other type of suspension or body lift. Always wear your seat belt.

Recommended tire/wheel sizes:

Stock: 245/65/17 or 245/60/18 (29.5")

17" wheels

255/65/17 (30.0")

245/70/17 (30.4")

265/65/17 (30.5")

255/70/17 (31.0")

265/70/17 (31.5")

18" wheels

245/65/18 (30.5")

255/65/18 (31.0")

265/65/18 (31.5")

***Be sure to check fitment prior to installation! These sizes are only suggestions. HRG is not responsible for improperly fitted wheels/tires!***

**Included in the kit:**

- 2 2.5" front lift spacers
- 2 0.25" Front shim spacers
- 2 1.5" or 2" rear lift spacers
- 6 M10x25mm grade 10.9 bolts (rear)
- 6 M10x25mm grade 10.9 bolts (front)
- 2 Replacement front sway bar links
- 4 2.75x1" M14 spacers (front subframe)
- 4 2.75x1" M14 spacers (rear subframe)
- 4 1.25x1" M14 spacers (rear trailing arms)
- 6 1.25x1" M12 spacers (front subframe bolt retaining brackets)
- 2 1x1" M10 spacers (passenger side engine mount)
- 2 1x1" M10 spacers (center driveshaft carrier bearing)
- 4 .625x1" M8 spacers (driveshaft safety loops)
- 4 M14x135mm bolts (rear subframe)
- 4 M14x90mm bolts (rear trailing arms)
- 2 M10x50mm bolts (center driveshaft carrier bearing)
- 2 M10x70mm bolts (passenger side engine mount)
- 6 M12x50mm bolts (front subframe bolt retainer brackets)
- 4 M8x40mm bolts (driveshaft safety loops)
- 2 front brake line extension brackets
- 1 1" foam seal (steering coupler)
- 2 17mm camber bolts (optional)

**Tools required:**

Floor jack, lug wrench, metric socket set to 21mm, metric wrench set to 19mm, impact wrench, pliers, heavy hammer, screwdriver, torque wrench and paint pen.

**Note to installer:** Some bolts removed to install lift kit will be replaced with longer bolts. Some OEM hardware will be reused. **Installing this kit requires cutting of plastic splash shield and sheet metal surrounding steering coupler to allow clearance.**

**Approximate installation time 4-6 hours.**

## **INSTALLATION VIDEO:**



## Front installation:

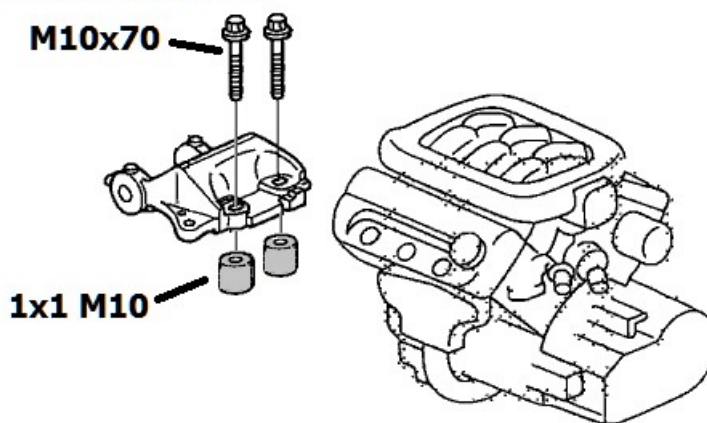
Step 1. Disconnect negative battery terminal.

Step 2. Support engine/transmission with floor jack, taking care not to dent oil pan.

Step 3. Remove 2 M10 bolts holding passenger side engine mount to engine bracket.

Step 4. Install 2 1x1 M10 spacers between engine mount and engine bracket, using supplied M10x70mm bolts. (See diagram.) It may be necessary to return to this step after subframe is lowered.

**2006-2014 RIDGELINE/2003-2015 PILOT  
2001-13 MDX  
ENGINE SPACER DIAGRAM  
(C) HRG OFFROAD 2022**



Step 5. Remove lower plastic splash guard under front valence to gain access to front main subframe bolts. Take care not to break plastic retainer clips. Save hardware for re-installation.

## ***Steps 6-8 refer to diagram on back page***

Step 6. Remove 6 M12 bolts holding main subframe bolt retainer brackets to body.

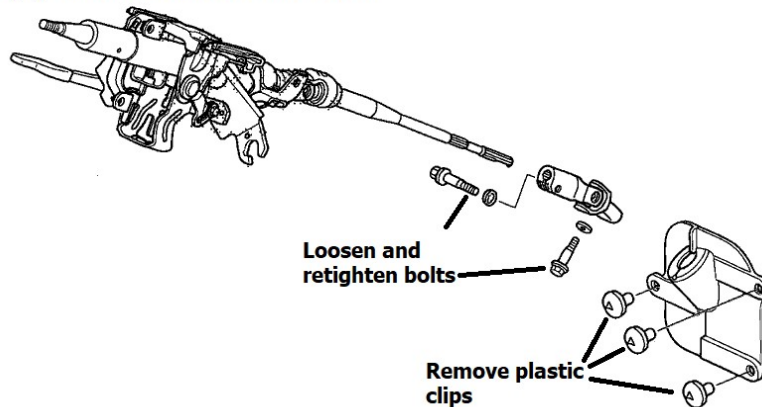
Step 7. Loosen but do not remove M14 main subframe bolts allowing subframe to drop approximately one inch. Remove main subframe bolts one at a time and slip 2.75x1 M14 spacers between subframe and body, re-installing OEM bolts as you go. (This keeps the subframe secure and aligned during installation.)

Step 8. Install 4 1.25x1 M12 spacers between main subframe bolt retainer brackets and body using supplied M12x50 bolts.

Step 9. Trim plastic splash shield as necessary to fit with lowered subframe, reinstall using original hardware.

Step 10. Under driver dash, remove plastic dust cover on steering column to gain access to steering coupler.

**2006-14 RIDGELINE STEERING COLUMN DIAGRAM  
(C) HRG ENGINEERING 2021**



Step 11. Using a body saw, trim sheet metal for clearance around steering coupler. This can also be done by simply bending the sheet metal back about 1/2 inch around the coupler. Turn steering wheel to verify the coupler has proper clearance.

**TIP: Loosen the bolts in the steering column couplers and re-tighten them to eliminate binding.**

Step 12. Install foam weather seal between steering rack and body.

Step 13. Re-install dust cover on steering column below interior dashboard.

Step 14. Remove plastic access panels under hood to reach front upper strut mounts.

Step 15. Remove nuts holding driver side front strut to body. (leave one nut on so struts do not fall when lifting vehicle to access bottom bolts)

Step 16. Jack up vehicle and support with jack stands.

Step 17. Remove wheels.

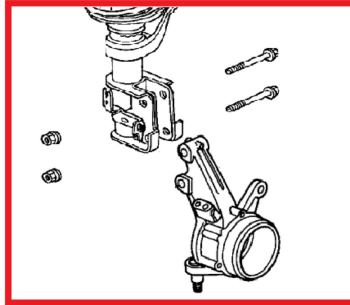
Step 18. Remove brake line and unclip ABS wiring from strut.

Step 19. Remove and discard OEM sway bar links.

Step 20. Remove bolts connecting strut to hub. (See diagram.) Save hardware for reinstallation. If installing camber

adjustment bolts, only one original bolt from each side will be reused. (See instructions included with camber bolts.)

**2006-2014 RIDGELINE  
FRONT STRUT DIAGRAM  
(C)HRG ENGINEERING**

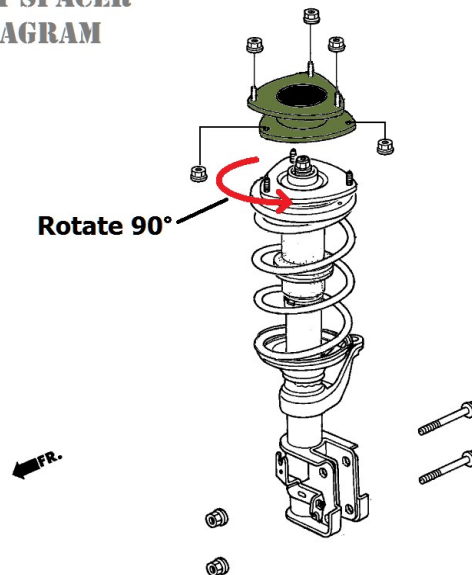


Step 21. Using a length of wire, or large zip ties, temporarily secure hub so as to prevent axle shaft from slipping out of inner hub.

Step 22. Remove strut.

Step 23. Rotate top hat 90° and install spacer onto strut using supplied M10 nuts.

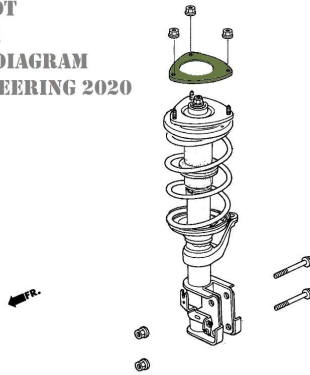
**2006-2022 HONDA  
RIDGELINE FRONT SPACER  
INSTALLATION DIAGRAM**



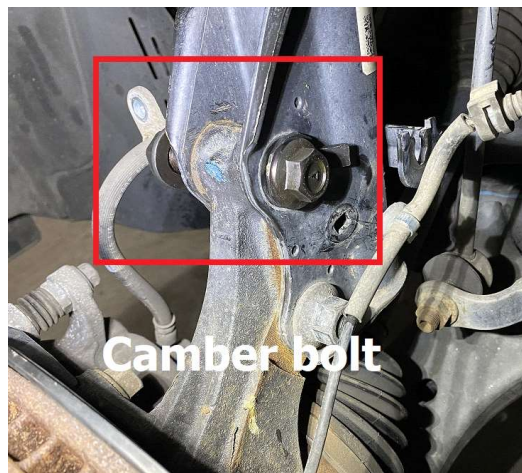
Step 24. Reinstall strut in reverse order, using supplied M10 nuts to attach spacer to body.

***OPTIONAL: place 0.25 inch shim spacers on top of spacers to gain maximum lift.***

2006-14 RIDGELINE  
2003-2015 PILOT  
2001-2013 MDX  
SHIM SPACER DIAGRAM  
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Step 25. Install camber adjustment bolts in place of top strut mounting bolt. Refer to camber bolt instructions. (see photo)



Step 26. Install new sway bar end link (included in the kit).

Step 30. Install brake line bracket (see photo)



Step 31. Reinstall tie rod end, be sure to install cotter pin!

Step 32. Repeat steps 20-31 for passenger side.

Step 33. Referring to factory service manual, torque all bolts to spec and mark with paint pen once completed.

Step 34. Reinstall wheels and lower vehicle.

## **Rear installation:**

Step 1. Jack up vehicle and support with jack stands.

Step 2. Support rear cross member with floor jack.

Step 3. Loosen but do not remove 4 main M14 bolts holding subframe to body, lower the subframe enough to install one 2.75x1" M14 spacer between subframe and body.

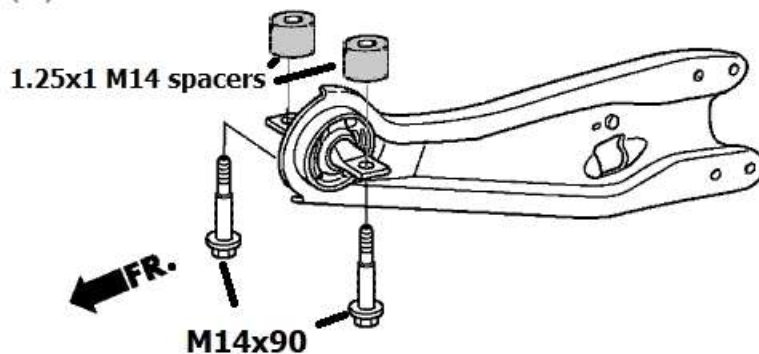
Step 4. Remove M14 rear subframe bolts one by one, installing remaining 3 spacers and replacing with M14x135 bolts. (See diagram.)

Step 5. Loosen M10 bolts holding center drive shaft carrier bearing. Remove one bolt, install 1x1" M10 steel spacer and M10x50 bolt, then repeat process for second bolt.

Step 6. Remove M8 bolts from both front and rear driveshaft safety loops, install (2) .625x1" M8 spacers and M8x40 in each loop.

Step 7. Remove one M14 bolt and loosen second M14 bolt in driver side rear trailing arm. Install 1.25x1" M14 spacers one at a time and replace OEM bolts with supplied M14x90. (see diagram)

### **03-15 PILOT 01-13 MDX 06-14 RIDGELINE REAR TRAILING ARM DIAGRAM (C) HRG ENGINEERING 2021**



**TIP: Remove sway bar (if applicable) or disassemble suspension on both sides before installing spacers.**

Step 8. Remove bolt holding driver side strut to lower control arm.

Step 9. Remove bolt holding lower control arm to wheel hub.

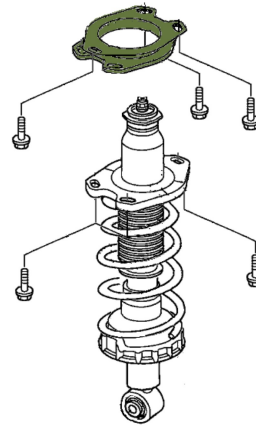
Step 10. Loosen but do not remove nut holding lower control arm to subframe to allow arm to drop.

Step 11. Remove 3 bolts holding strut to body and remove strut.

Step 12. Attach spacer to strut using provided M10x25mm bolts.

Step 13. Re install strut to body using OEM hardware.

**2006-2014 HONDA RIDGELINE  
REAR STRUT SPACER  
INSTALLATION DIAGRAM  
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Step 14. Reinstall bolt holding strut to lower control arm.

Step 15. Using a floor jack, lift rear lower control arms to line up bolt holes on lower control arm and wheel hub.

Step 16. Reinstall bolt holding lower control arm to wheel hub.

**TIP: Do not fully tighten control arm bolts until vehicle is resting on the ground. (This will help prolong bushing life.)**

Step 17. Repeat steps 7-16 for passenger side

Step 18. Reinstall wheels and lower vehicle.

Step 19. Double check all bolts for tightness, refer to service manual for torque specifications.

Step 20. Get a professional alignment.

**Note: Installing a lift kit will change the suspension geometry and will require a 4 wheel alignment.**

**Warning: Failure to follow the procedures in these installation instructions may result in unsafe handling characteristics, damage to vehicle, or loss of**



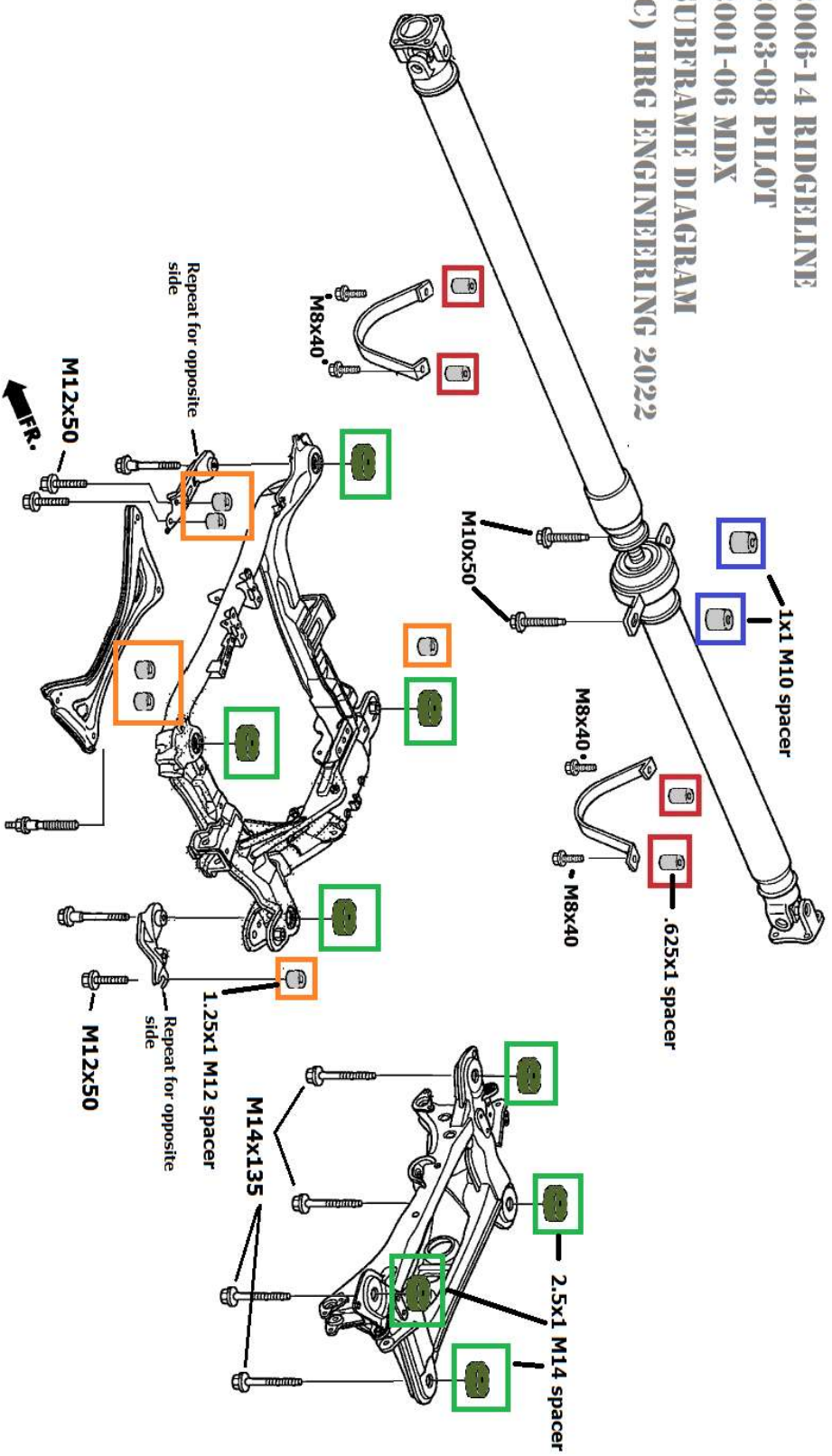
**control.**

**For tech support, please call 1-844- HRG LIFT (474-5438) from 8-5 EST  
Mon-Sat or email us 24/7 at [support@hrgoffroad.com](mailto:support@hrgoffroad.com).**

***This product is intended for off-road use only!!***

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2006-14 RIDGELINE  
2003-08 PILOT  
2001-06 MDX  
SUBFRAME DIAGRAM  
(C) HRG ENGINEERING 2022



## Checklist:

___ RID 0622F-2.5 (2)	3-k
___ RID0622F-SHIM (2)	3-p
___ RID0614R-1.5 or 2.0 (2)	4-d/4-f
___ RID0621 SBEL (2)	3-a
___ 2.75x1 M14 (8)	2-k
___ 1.25x1 M14 (1 pack of 4)	2-n
___ 1.25x1 M12 (2 packs of 3)	2-o
___ 1x1 M10 (1 pack of 4)	2-j
___ M8x40/.625x1 (1 pack of 4)	1-r
___ M12x50 (1 pack of 6)	1-g
___ M14x135 (1 pack of 4)	2-k
___ M14x90 (1 pack of 4)	2-l
___ M10x50/70 (1 pack)	1-p
___ 1" foam seal (1)	3-c
___ cambolt-17 (1 pack)	2-a
___ BLB-L (1 pack)	1-q
___ CAMBOLT Instructions	

\_\_\_ contact card

\_\_\_ sticker

\_\_\_ HRG koozie